

GENERAL

THIS PORTION OF THE PROJECT INVOLVES INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 237 (CHANCELLORS RUN ROAD) AND AMBER DRIVE / FIRE DEPARTMENT LANE IN ST. MARYS COUNTY, MARYLAND. MD 237 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 237 APPROACHES OPERATING CONCURRENTLY AND THE AMBER DRIVE/ FIRE DEPARTMENT LANE APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE NORTHBOUND AND SOUTHBOUND MD 237 APPROACHES.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF MD 237. PEDESTRIAN INDICATIONS ARE PROPOSED ACROSS AMBER DRIVE AND FIRE DEPARTMENT LANE.

EMERGENCY PRE-EMPTION PHASES WILL BE PROVIDED FOR THE NORTHBOUND AND SOUTHBOUND MD 237 APPROACHES AND THE FIRE DEPARTMENT LANE APPROACH.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

NORTH LEG - MD 237 (CHANCELLORS RUN ROAD) AND FIRE DEPARTMENT LANE/AMBER DRIVE

WAIT: "WAIT TO CROSS CHANCELLORS RUN AT AMBER AND FIRE DEPARTMENT."*

WALK: RAPID TICK

EAST LEG - FIRE DEPARTMENT LANE AND MD 237 (CHANCELLORS RUN ROAD)

WAIT: "WAIT TO CROSS FIRE DEPARTMENT AT CHANCELLORS RUN." *

WALK: RAPID TICK

WEST LEG - AMBER DRIVE AND MD 237 (CHANCELLORS RUN ROAD)

WAIT: "WAIT TO CROSS AMBER AT CHANCELLORS RUN."*

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT (1-4) CAMERAS, ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS WITH SYSTEM PACKAGE AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PHONE DROP

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAYBE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-03 (LANE SHIFT)

STANDARD NO. MD-104.02-14 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. JOHN S. MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER, TELEMETRY INTERFACE PANEL AND HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9086	1 EACH	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	137 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 4 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED.- MAST ARM MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 237, RIGHT ARROW" (30 IN. x 51 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 237, LEFT ARROW" (48 IN. x 75 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 237, RIGHT ARROW" (30 IN. x 51 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, MD 237, LEFT ARROW" (48 IN. x 75 IN.) - POLE MOUNT - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS CHANCELLORS RUN ROAD" - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS AMBER DRIVE" - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS FIRE DEPARTMENT LANE" - 2 EACH W3-3 SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL (24 IN. x 24 IN.) AND FLAG - GROUND MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 AND 5	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 1 + 6	G	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 + 6 CHANGE	G	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 + 5	R	R	R	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
2 + 5 CHANGE	R	R	R	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FLOW	FLOW	FLOW	FLOW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FLOW	FLOW
4 + 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FIREHOUSE PRE-EMPTION 1 & 2	G	G	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
FIREHOUSE PRE-EMPTION 3	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	11 C.Y.	TEST PIT EXCAVATION
585621	480 L.F.	12 INCH HEAT APPLIED WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS LINE
585625	125 L.F.	24 INCH HEAT APPLIED WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
801004	22 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801106	38 L.F.	WOOD SIGN SUPPORTS 4" x 6"
802501	625 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805115	150 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805118	280 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805125	25 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	705 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	160 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807202	1 EACH	EMBEDDED METERED SERVICE PEDESTAL
810010	75 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
810601	4 EACH	NONINVASIVE DETECTOR, 1000 FT. LEAD-IN
811001	11 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813010	2 EACH	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
813014	26 S.F.	INSTALL GROUND MOUNTED SIGN
813015	111 S.F.	INSTALL OVERHEAD SIGN
816001	4 EACH	VIDEO DETECTION CAMERA
816005	3 EACH	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
816010	1 EACH	CONTROL CABLE, 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER
816201	1 EACH	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
816215	3 EACH	OPTICOM NO. 721 DETECTOR EYE
818004	4 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
818036	2 EACH	STEEL POLE WITH A 50 FOOT MAST ARM
818041	1 EACH	STEEL POLE WITH A 60 FOOT MAST ARM
818052	1 EACH	STEEL POLE WITH A 70 FOOT MAST ARM
837001	7 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
860272	38 EACH	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861107	960 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
861105	1080 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	1530 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
861116	470 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
866103	2 EACH	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871202	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
800000	6 EACH	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	6 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE STATION
800000	1 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT
800000	710 L.F.	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 237 AND AMBER DRIVE /FIRE DEPARTMENT LANE



GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE DECEMBER 10, 2008 CONTRACT NO. SM7575171

DESIGNED BY S. BLOSS COUNTY ST. MARYS

DRAWN BY S. BLOSS LOGMILE 18023702.71

CHECKED BY N. LEARY DATE 12/10/08 TIME NO. H783

F.A.P. NO. ACSTP-HP-2442(00)E TOD NO.

TS NO. 4690 DRAWING TSP-3 OF 16 SHEET NO. 4 OF 36



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